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Response to Office Action mailed August 1, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1, 4, 11, 13, 16, 20, 27, and 42 are amended.

Claims 2, 3, 13-15, 18, 19, 29-32, 40, and 41 are canceled.

Claim 43 is new.

Listing of Claims:

1. (Currently Amended) A duplexer comprising a laminate in which ~~at least four~~ dielectric layers and ~~at least two~~ electrode layers are laminated alternately, ~~comprising:~~
the laminate comprising a first dielectric layer, a second dielectric layer, a third dielectric layer, and a fourth dielectric layer laminated successively,
the duplexer comprising:
a first filter for transmitting and a second filter for receiving, which are provided in the laminate and have different pass band frequencies; and
a matching circuit comprising a coupling line formed in a planar shape on one plane of a laminated layer, having one end that is short-circuited and the other end that is connected to an external terminal, provided between the first filter and the second filter, a width of the coupling line being uniform from one end to the other end,
wherein the electrode layers include:
a first shield electrode placed on an upper surface of the first dielectric layer;
an interstage coupling capacitive electrode comprising the first filter and an input/output coupling capacitive electrode comprising the second filter, placed between the first dielectric layer and the second dielectric layer;
a first resonator electrode comprising the first filter, a second resonator electrode comprising the second filter, and a coupling line electrode comprising the matching circuit, placed between the second dielectric layer and the third dielectric layer;
an input/output coupling capacitive electrode comprising the first filter and an interstage coupling capacitive electrode comprising the second filter, placed between the third dielectric

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layer and the fourth dielectric layer;

a second shield electrode placed on a lower surface of the fourth dielectric layer;
at least three terminal electrodes connected to the input/output coupling capacitive
electrode comprising the first filter, the input/output coupling capacitive electrode comprising the
second filter, and the coupling line electrode, respectively, provided on side surfaces of the first
dielectric layer, the second dielectric layer, the third dielectric layer, and the fourth dielectric
layer; and

an end face electrode connecting the first shield electrode and the second shield electrode
to each other.

wherein the first filter comprises at least one first stripline resonator formed in a planar shape on the one plane, having one end that is short-circuited,

the second filter comprises at least one second stripline resonator formed in a planar shape on the one plane, having one end that is short-circuited,

the external terminal connected to the coupling line is on a short-circuited side of the first filter and the second filter, and

the first stripline resonator and the second stripline resonator are coupled to the coupling line by electromagnetic field coupling.

2-3. (Canceled)

4. (Currently Amended) The duplexer according to claim 1, wherein at least one of the first dielectric layer, the second dielectric layer, the third dielectric layer, and the fourth dielectric layer has a dielectric constant different from that of the other dielectric layers.

5. (Withdrawn) The duplexer according to claim 1, wherein at least one of the first stripline resonator and the second stripline resonator is formed on a dielectric layer different from a dielectric layer on which the coupling line is formed.

6. (Withdrawn) The duplexer according to claim 1, wherein the coupling line comprises at least two striplines having different line widths, connected to each other.

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7. (Withdrawn) The duplexer according to claim 1, wherein the coupling line comprises a plurality of striplines, and the plurality of striplines are provided on different dielectric layers.
8. (Withdrawn) The duplexer according to claim 7, wherein at least one of the plurality of striplines has a line width different from that of the other striplines.
9. (Withdrawn) The duplexer according to claim 7, wherein the plurality of striplines are connected to each other by a via hole.
10. (Withdrawn) The duplexer according to claim 1, further comprising a coupling capacitor provided so as to be overlapped with the coupling line and the stripline resonator with the dielectric layer interposed therebetween.
11. (Withdrawn and Currently Amended) The duplexer according to claim [[3]] 1, further comprising an adjusting capacitive electrode provided so as to be opposed to the first shield electrode with the first dielectric layer interposed therebetween.
12. (Withdrawn) The duplexer according to claim 1, wherein the first filter and the second filter are provided so as to be opposed to each other with a shield electrode interposed therebetween.
- 13-15. (Canceled)
16. (Currently Amended) A duplexer comprising a laminate in which at least four dielectric layers and at least two electrode layers are laminated alternately, ~~comprising:~~
the laminate comprising a first dielectric layer, a second dielectric layer, a third dielectric layer, and a fourth dielectric layer laminated successively.
the duplexer comprising:
a first filter for transmitting and a second filter for receiving, which are provided in the

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laminate and have different pass band frequencies; and

a matching circuit comprising a coupling line, having one end that is opened and the other end that is connected to an external terminal, provided between the first filter and the second filter,

wherein the electrode layers include:

a first shield electrode placed on an upper surface of the first dielectric layer;

an interstage coupling capacitive electrode comprising the first filter and an input/output coupling capacitive electrode comprising the second filter, placed between the first dielectric layer and the second dielectric layer;

a first resonator electrode comprising the first filter, a second resonator electrode comprising the second filter, and a coupling line electrode comprising the matching circuit, placed between the second dielectric layer and the third dielectric layer;

an input/output coupling capacitive electrode comprising the first filter and an interstage coupling capacitor electrode comprising the second filter, placed between the third dielectric layer and the fourth dielectric layer;

a second shield electrode placed on a lower surface of the fourth dielectric layer;

at least three terminal electrodes connected to the input/output coupling capacitive electrode comprising the first filter, the input/output coupling capacitive electrode comprising the second filter, and the coupling line electrode, respectively, provided on side surfaces of the first dielectric layer, the second dielectric layer, the third dielectric layer, and the fourth dielectric layer; and

an end face electrode connecting the first shield electrode and the second shield electrode to each other.

wherein the first filter comprises at least one first stripline resonator, having one end that is short-circuited,

the second filter comprises at least one second stripline resonator, having one end that is short-circuited,

the external terminal connected to the coupling line is on ~~a short-circuited side~~ an end face of an open end side of the first filter and the second filter, and

the first stripline resonator and the second stripline resonator are coupled to the coupling

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line by electromagnetic field coupling.

17. (Withdrawn) The duplexer according to claim 16, wherein a matching capacitive electrode is connected on an open end side of the coupling line with a dielectric layer interposed therebetween.

18-19. (Canceled)

20. (Currently Amended) The duplexer according to claim ~~[[19]]~~ 16, wherein at least one of the first dielectric layer, the second dielectric layer, the third dielectric layer, and the fourth dielectric layer has a dielectric constant different from that of the other dielectric layers.

21. (Withdrawn) The duplexer according to claim 16, wherein at least one of the first stripline resonator and the second stripline resonator is formed on a dielectric layer different from a dielectric layer on which the coupling line is formed.

22. (Withdrawn) The duplexer according to claim 16, wherein the coupling line comprises at least two striplines having different line widths, connected to each other.

23. (Withdrawn) The duplexer according to claim 16, wherein the coupling line comprises a plurality of striplines, and the plurality of striplines are provided on different dielectric layers.

24. (Withdrawn) The duplexer according to claim 23, wherein at least one of the plurality of striplines has a line width different from that of the other striplines.

25. (Withdrawn) The duplexer according to claim 23, wherein the plurality of striplines are connected to each other by a via hole.

26. (Withdrawn) The duplexer according to claim 16, further comprising a coupling capacitor provided so as to be overlapped with the coupling line and the stripline resonator with

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the dielectric layer interposed therebetween.

27. (Withdrawn and Currently Amended) The duplexer according to claim [[19]] 16, further comprising an adjusting capacitive electrode provided so as to be opposed to the first shield electrode with the first dielectric layer interposed therebetween.

28. (Withdrawn) The duplexer according to claim 16, wherein the first filter and the second filter are provided so as to be opposed to each other with a shield electrode interposed therebetween.

29-32. (Canceled)

33. (Withdrawn) A laminate-type high-frequency device, comprising:
a duplexer comprising a laminate in which dielectric layers and electrode layers are laminated alternately; and
a semiconductor chip and/or a surface acoustic wave device mounted on an upper surface of the laminate,
wherein, as the duplexer, the duplexer of claim 1 is used.

34. (Withdrawn) Communication equipment, comprising:
an antenna; and
a duplexer for transmitting a frequency component output from a transmitting circuit to the antenna and transmitting a frequency component received from the antenna to a receiving circuit, comprising a laminate in which dielectric layers and electrode layers are laminated alternately,
wherein, as the duplexer, the duplexer of claim 1 is used.

35. (Withdrawn) Communication equipment according to claim 34, further comprising at least one selected from a semiconductor chip and a surface acoustic wave device mounted on an upper surface of the laminate.

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36-37. (Canceled)

38. (Withdrawn) A laminate-type high-frequency device, comprising:
a duplexer comprising a laminate in which dielectric layers and electrode layers are laminated alternately; and
a semiconductor chip and/or a surface acoustic wave device mounted on an upper surface of the laminate,
wherein, as the duplexer, the duplexer of claim 16 is used.

39. (Withdrawn) Communication equipment, comprising:
an antenna; and
a duplexer for transmitting a frequency component output from a transmitting circuit to the antenna and transmitting a frequency component received from the antenna to a receiving circuit, comprising a laminate in which dielectric layers and electrode layers are laminated alternately,
wherein, as the duplexer, the duplexer of claim 16 is used.

40-41. (Canceled)

42. (Currently Amended) The duplexer according to claim [[2]] 1, wherein the first and second stripline resonators are arranged symmetrically along a center axis.

43. (New) The duplexer according to claim 16, wherein the first and second stripline resonators are arranged symmetrically along a center axis.